Chemistry and Physics of Lipids, 45 (1987) 365–368
Elsevier Scientific Publishers Ireland Ltd.

SUBJECT INDEX
Volume 45 (1987)

Acid sterol ester hydrolase, rat liver lysosomes, microemulsion, 13
Acylcarnitines, sarcoplasmic reticulum, Ca^{2+}-ATPase activity, Ca^{2+}-uptake, 49
Alcoholism, diene conjugation, octadeca-9,-11-dienoic acid, precancer, lipid free radicals, peroxidation, 353
Aldehydes, liver injury, fatty degeneration, isolated hepatocytes, lipid peroxidation, oxidative stress, 117
Allo bile acid methyl esters, methyl 5α-cholanoates, ^{13}C-NMR spectra, hydroxy substituent effects, 1
Antioxidants, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, glutathione, glutathione peroxidase, superoxide dismutase, vitamin E, 251
Apolipoprotein C-II, apolipoprotein C-III, lipoprotein lipase, 39
Apolipoprotein C-III, apolipoprotein C-II, lipoprotein lipase, 39
Atherosclerosis, low density lipoprotein, lipid peroxidation, cytotoxicity, 315
Azido fatty acid, synthesis, physical properties, 65

Bromobenzene, GSH depletion, lipid peroxidation, hepatoxicity, protein thiols, calcium homeostasis, 143

Ca^{2+}-ATPase activity, acylcarnitines, sarcoplasmic reticulum, Ca^{2+}-uptake, 49
Ca^{2+}-uptake, acylcarnitines, sarcoplasmic reticulum, Ca^{2+}-ATPase activity, 49
Calcium, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxalkenals, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Calcium homeostasis, GSH depletion, lipid peroxidation, hepatoxicity, bromobenzene, protein thiols, 143
Cell proliferation, polyunsaturated fatty acids, peroxidation, cell viability, 269
Cell viability, polyunsaturated fatty acids, peroxidation, cell proliferation, 269
Chemicals, lipid peroxidation, drugs, reactive oxygen species, free radicals, redox cycling, 105
Covalent binding, haloalkanes, iron, lipid peroxidation, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Cytotoxicity, low density lipoprotein, lipid peroxidation, atherosclerosis, 315

Diene conjugation, octadeca-9,11-dienoic acid, precancer, lipid free radicals, peroxidation, alcoholism, 353
Differential scanning calorimetry, fatty acids, liposomes, phase diagrams, 75
Differential scanning calorimetry, protein-lipid interaction, thermotropic phase behavior, myotoxin *a*, 93
Drugs, lipid peroxidation, chemicals, reactive oxygen species, free radicals, redox cycling, 105

Erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxidase dismutase, vitamin E, 251
Exogenous lipid peroxides, lipid peroxide level, human diseases, 337

Fatty acids, differential scanning calorimetry, liposomes, phase diagrams, 75
Fatty degeneration, liver injury, isolated hepatocytes, lipid peroxidation, oxidative stress, aldehydes, 117
Ferritin, haemosiderin, hydroxyl radical, lipid peroxidation, 241

Free radicals, erythrocytes, lipid peroxidation, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxidase, dismutase, vitamin E, 251
Free radicals, lipid peroxidation, drugs, chemicals, reactive oxygen species, redox cycling, 105

Glutathione, erythrocyte, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione peroxidase, superoxidase, dismutase, vitamin E, 251
Glutathione peroxidase, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, superoxide dismutase, vitamin E, 251
GSH depletion, lipid peroxidation, hepatoxicity, bromobenzene, protein thiols, calcium homeostasis, 143

Haemoglobin, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxidase dismutase, vitamin E, 251
Haemosiderin, ferritin, hydroxyl radical, lipid peroxidation, 241
Haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Hemochromatosis, iron, lipid peroxidation, hepatotoxicity, 207
Hepatocellular damage, haloalkanes, iron, lipid peroxidation, covalent binding, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Hepatoxicity, GSH depletion, lipid peroxidation, bromobenzene, protein thiols, calcium homeostasis, 143
Hepatotoxicity, iron, lipid peroxidation, hemochromatosis, 207
4-Hydroxyalkenals, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, calcium lysophosphatides, phospholipase A_2, membrane fluidity, 171
Hydroxyl radical, ferritin, haemosiderin, lipid peroxidation, 241
Hydroxy substituent effects, allo bile acid methyl esters, methyl 5α-cholanoates, ^{13}C-NMR spectra, 1

Interfacial tension, lipase kinetics, triacylglycerol, 27
Iron, haloalkanes, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Iron, lipid peroxidation, hepatotoxicity, hemochromatosis, 207
Isolated hepatocytes, liver injury, fatty degeneration, lipid peroxidation, oxidative stress, aldehydes, 117

Lipase kinetics, interfacial tension, triacylglycerol, 27
Lipid free radicals, diene conjugation, octadeca-9,11-dienoic acid, precancer, peroxidation, alcoholism, 353
Lipid peroxidation, drugs, chemicals, reactive oxygen species, free radicals, redox cycling, 105
Lipid peroxidation, erythrocytes, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxidase dismutase, vitamin E, 251
Lipids, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, antioxidants, glutathione, glutathione peroxidase, superoxide dismutase, vitamin E, 251
Lipid peroxidation, ferritin, haemosiderin, hydroxyl radical, 241
Lipid peroxidation, GSH depletion, hepatoxicity, bromobenzene, protein thiols, calcium homeostasis, 143
Lipid peroxidation, haloalkanes, iron, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Lipid peroxidation, iron, hepatotoxicity, hemochromatosis, 207

Lipid peroxidation, liver injury, fatty degeneration, isolated hepatocytes, oxidative stress, aldehydes, 117
Lipid peroxidation, low density lipoprotein, atherosclerosis, cytotoxicity, 315
Lipid peroxide level, exogenous lipid peroxides, human diseases, 337
Lipoprotein lipase, apolipoprotein C-II, apolipoprotein C-III, 39
Liposomes, differential scanning calorimetry, fatty acids, phase diagrams, 75
Liver injury, fatty degeneration, isolated hepatocytes, lipid peroxidation, oxidative stress, aldehydes, 117
Low density lipoprotein, lipid peroxidation, atherosclerosis, cytotoxicity, 315
Lysophosphatides, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, phospholipase A_2, membrane fluidity, 171

Membrane fluidity, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase, A_2, 171
Methyl 5α-cholanoates, allo bile acid methyl esters, ^{13}C-NMR spectra, hydroxy substituent effects, 1
Microemulsion, rat liver lysosomes, acid sterol ester hydrolase, 13
Myotoxin a, protein-lipid interaction, differential scanning calorimetry, thermotropic phase behavior, 93

^{13}C-NMR spectra, allo bile acid methyl esters, methyl 5α-cholanoates, hydroxy substituent effects, 1

Octadeca-9,11-dienoic acid, diene conjugation, precancer, lipid free radicals, peroxidation, alcoholism, 353
Oxidative stress, liver injury, fatty degeneration, isolated hepatocytes, lipid peroxidation, aldehydes, 117
Oxygen radicals, erythrocytes, lipid peroxidation, free radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxidase dismutase, vitamin E, 251

Peroxidation, diene conjugation, octadeca-9,11-dienoic acid, precancer, lipid free radicals, alcoholism, 353
Peroxidation, polyunsaturated fatty acids, cell proliferation, cell viability, 269
Phase diagrams, differential scanning calorimetry, fatty acids, liposomes, 75
Phospholipase A_2, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, plasma membrane, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, membrane fluidity, 171
Physical properties, azido fatty acid, synthesis, 65
Plasma membrane, haloalkanes, iron, lipid peroxidation, covalent binding, hepatocellular damage, secondary pathological mechanisms, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase A_2, membrane fluidity, 171
Polyunsaturated fatty acids, peroxidation, cell proliferation, cell viability, 269
Precancer, diene conjugation, octadeca-9,-11-dienoic acid, lipid free radicals, peroxidation, alcoholism, 353
Protein-lipid interaction, differential scanning calorimetry, thermotropic phase behavior, myotoxin *a*, 93
Protein thiols, GSH depletion, lipid peroxidation, hepatoxicity, bromobenzene, calcium homeostasis, 143

Rat liver lysosomes, acid sterol ester hydrolase, microemulsion, 13
Reactive oxygen species, lipid peroxidation, drugs, chemicals, free radicals, redox cycling, 105
Redox cycling, lipid peroxidation, drugs, chemicals, reactive oxygen species, free radicals, 105

Sarcoplasmic reticulum, acylcarnitines, Ca^{2+}-ATPase activity, Ca^{2+}-uptake, 49
Secondary pathological membranes, haloalkanes, iron peroxidation, covalent binding, hepatocellular damage, plasma membrane, 4-hydroxyalkenals, calcium, lysophosphatides, phospholipase, A_2, membrane fluidity, 171

Superoxide dismutase, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, vitamin E, 251
Synthesis, azido fatty acid, physical properties, 65

Thermotropic phase behavior, protein-lipid interaction, differential scanning calorimetry, myotoxin *a*, 93
Triacylglycerol, interfacial tension, lipase kinetics, 27

Vitamin E, erythrocytes, lipid peroxidation, free radicals, oxygen radicals, haemoglobin, lipids, antioxidants, glutathione, glutathione peroxidase, superoxide dismutase, 251

Chemistry and Physics of Lipids, 45 (1987) 369
Elsevier Scientific Publishers Ireland Ltd.

AUTHOR INDEX
Volume 45 (1987)

Albano, E. 117
Bacon, B.R. 207
Bégin, M.E. 269
Bois, A. 27
Britton, R.S. 207
Catapano, A.L. 39
Chang, F.C. 1
Chisolm III, G.M. 315
Clemens, M.R. 251
Comporti, M. 143
Dianzani, M.U. 117
Dormandy, T.L. 353
Ekman, S. 13
Esterbauer, H. 315
Gargouri, Y. 27
Gómez-Fernandez, J.C. 75
Goto, J. 1
Haeyaert, P. 49
Hoff, H.F. 315
Iida, T. 1
Jürgens, G. 315
Kappus, H. 105
Lao, H.B. 65
Liddle, W.K. 93
Lie Ken Jie, M.S.F. 65
Middaugh, C.R. 93
Nambara, T. 1
Nury, S. 27
Ortiz, A. 75
O'Connell, M.J. 241
Peters, T.J. 241
Piéroni, G. 27
Poli, G. 117
Recknagel, R.O. 207
Rivière, C. 27
Slotte, J.P. 13
Tu, A.T. 93
Ungemach, F.R. 171
Van Cauwelaert, F.H. 49
Verdonck, A. 49
Verger, A. 27
Waller, H.D. 251
Wickens, D.G. 353
Yagi, K. 337

Chemistry and Physics of Lipids, 45 (1987) 371
Elsevier Scientific Publishers Ireland Ltd.

CONTENTS

Volume 45 (1987)

T. Iida, F.C. Chang, J. Goto and T. Nambara, *Carbon-13 nuclear magnetic resonance spectra of bile acid derivatives. Part II. Mono-, di- and trihydroxy stereoisomers of methyl 5α-cholanoates* 1

S. Ekman and J.P. Slotte, *Effects of substrate composition on the esterification and hydrolysis activity of lysosomal acid sterol ester hydrolase* 13

S. Nury, G. Piéroni, C. Rivière, Y. Gargouri, A. Bois and R. Verger, *Lipase kinetics at the triacylglycerol-water interface using surface tension measurements* 27

A.L. Catapano, *Activation of lipoprotein lipase by apolipoprotein C-II is modulated by the COOH terminal region of apolipoprotein c-III* 39

P. Haeyaert, A. Verdonck and F.H. van Cauwelaert, *Influence of acylcarnitines of different chain length on pure and mixed phospholipid vesicles and on sarcoplasmic reticulum vesicles* 49

M.S.F. Lie Ken Jie and H.B. Lao, *Fatty acids, part 31. The preparation and some physical properties of azido fatty esters* 65

A. Ortiz and J.C. Gómez-Fernández, *A differential scanning calorimetry study of the interaction of free fatty acids with phospholipid membranes* 75

W.K. Liddle, C.R. Middaugh and A.T. Tu, *A calorimetric examination of the effect of myotoxin a on the thermotropic phase behavior of model lipid membranes* 93

Announcement 101

LIPID PEROXIDATION: PART II. PATHOLOGICAL IMPLICATIONS

Introduction 103

H. Kappus, *A survey of chemicals inducing lipid peroxidation in biological systems* 105

G. Poli, E. Albano and M.U. Dianzani, *The role of lipid peroxidation in liver damage* .. 117

M. Comporti, *Glutathione depleting agents and lipid peroxidation* 143

F.R. Ungemach, *Pathobiochemical mechanisms of hepatocellular damage following lipid peroxidation* 171

R.S. Britton, B.R. Bacon and R.O. Recknagel, *Lipid peroxidation and associated hepatic organelle dysfunction in iron overload* 207

M.J. O'Connell and T.J. Peters, *Ferritin and haemosiderin in free radical generation, lipid peroxidation and protein damage* 241

M.R. Clemens and H.D. Waller, *Lipid peroxidation in erythrocytes* 251

M.E. Bégin, *Effects of polyunsaturated fatty acids and of their oxidation products on cell survival* 269

G. Jürgens, H.F. Hoff, G.M. Chisolm III and H. Esterbauer, *Modification of human serum low density lipoprotein by oxidation — characterization and pathophysiological implications* 315

K. Yagi, *Lipid peroxides and human diseases* 337

T.L. Dormandy and D.G. Wickens, *The experimental and clinical pathology of diene conjugation* 353

Subject Index — Volume 45 365

Author Index — Volume 45 369

Contents — Volume 45 371